

PCX160

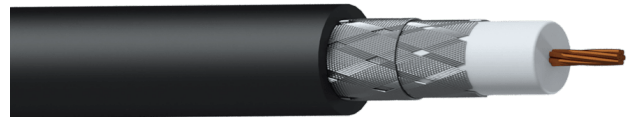
3G SDI coaxial video cable - RG6/U - flex 0.65 mm² - 19 AWG - HighFlex™

Highlights:

- Highflex™ solid & flexible jacket
- HD-SDI up to 85 meter
- 3G-SDI up to 58 meter

Product information:

The PCX160 is an RG6/U coaxial video cable specifically designed for digital SDI, HD-SDI and 3G-SDI video transmissions in mobile applications. Its Highflex™ PVC outer jacket in combination with other high-grade materials guarantee a great flexibility, long service life span and accurate signal transmission under all circumstances. The conductor section of 19 AWG is constructed using 7 strands of high purity copper with a thickness of 0,345 mm, resulting in an overall section of 0,65 mm² surrounded by a foamed polyethylene isolator. The dual braided overall shielding consists of two individual layers with a coverage percentage of 95%, guaranteeing the best possible immunity against noise and interference. Compatible with Neutrik NBNC75BRU11.



Properties:



Inner Conductors:



Shielding:



Product Features:

| | |
|-------------|--------------------|
| Application | Rental & MI |
| Series | Bulk & Accessories |

Physical Characteristics:

| | | | |
|-------------------|--------------------------|-------------------------------|----------------|
| Type of cable | 75 Ω coaxial video cable | | |
| Inner conductor | Material | BC 7 x 0.345 mm (Ø) (OFC) | |
| | Section | 0.65 mm ² | |
| | Number of conductors | 1 | |
| | Insulation | Material | FPE 4.6 mm (Ø) |
| | | Colours | White |
| | American Wire Gauge | 19 AWG | |
| Overall shielding | Braiding | TC 16 x 9 x 0.12 mm (Ø) (OFC) | |
| Outer jacket | Material | PVC 7 mm (Ø) | |
| | Colours | Black | |

Standards & regulations:

| | |
|------------------------|-------------------------------------|
| RoHS2 compliant | According EU Directive 2011/65/EU |
| Reach compliant | According EC 1907/2006 |
| Flammability test | According IEC 60332-1 |
| Indoor / outdoor | UV resistant (UL1581, UVA, 720 h) |
| Smoke emissions | According IEC 61034 |
| Zero halogen compounds | According EN 50267-2-1 IEC 60754 |
| Cabling standard | RG6/U |

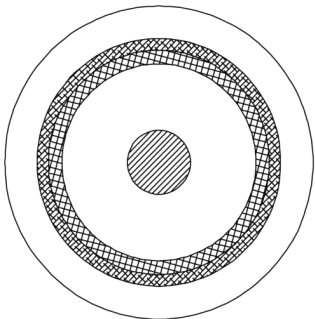
Electrical Characteristics:

| | |
|--------------------------------------|------------------------------|
| Max. conductor DC resistance | 27.4 (Ω / Km) |
| Dielectric strength | 1.5 (KV / 1 min. DC) |
| Rated voltage | 300 V |
| Nom. Velocity of propagation | 81 % |
| Characteristic impedance | 75 Ω \pm 3 Ω |
| Conductor to shield Nom. Capacitance | 53 (pF/m) |
| Nom. Delay | 4.1 ns/m |
| Nom. shield DC resistance | 9 (Ω / Km) |

Mechanical Characteristics:

| | | |
|-------------------|---------------------|----------------------|
| Temperature range | Fixed installation | - 20 °C till + 80 °C |
| | Mobile installation | - 15 °C till + 60 °C |
| Bending radius | Fixed installation | 8 x outer diameter |
| | Mobile installation | 10 x outer diameter |

Cross sections:



Variants:

- PCX160/1 - 100 m plastic reel

Attenuation nom.:

| Frequency (MHz) | 1 | 5 | 10 | 25 | 100 | 180 | 270 | 360 | 540 | 720 | 1000 | 1500 | 3000 | 4500 |
|-----------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Attenuation (dB/100m) | 0.787 | 1.476 | 1.772 | 2.362 | 3.872 | 7.874 | 10.827 | 13.124 | 15.421 | 19.358 | 22.639 | 26.904 | 34.122 | 51.184 |

64.964 Max attenuation = Nom x 1.15

Min. Return loss:

| Frequency in MHz | 5 MHz ~ 1600 MHz | 1600 MHz ~ 4500 MHz |
|-----------------------|------------------|---------------------|
| Return loss (dB/100m) | 18 | 15 |

Recommended Transmission distance at Serial Digital Data rates:

| Data Rate | Standard | Example video formats | Recommended distance (m) |
|-----------|-------------------------------|-----------------------|--------------------------|
| 270 Mb/s | SMPTE 259 M Component SD-SDI | 480i | 325 |
| 360 Mb/s | SMPTE 259 M Widescreen SD-SDI | 576i | 279 |
| 1.5 Gb/s | SMPTE 292M HD-SDI | 720p / 1080i | 85 |
| 3 Gb/s | SMPTE 424M 3G-SDI | 1080p | 58 |

Recommended length values are based on typical attenuation values by 30 dB loss at 1/2 clock frequency, but are depending on equalizer

on receiving side. Recommendations are based on 20 dB equalizer, but can increase depending of the used equalizer.